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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/653,678	09/02/2003	Michael John Keogh		4598
75	90 07/25/2006		EXAMINER	
Michael John Keoga			NGUYEN, CHAU N	
19 ABINGTON DRIVE PINEHURST, NC 28374			ART UNIT	PAPER NUMBER
			2831	
		DATE MAILED: 07/25/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Assistant Commence		10/653,678	KEOGH, MICHAEL JOHN		
	Office Action Summary	Examiner	Art Unit		
		Chau N. Nguyen	2831		
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet with the	correspondence address		
A SH WHIC - Exte after - If NC - Faill Any	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING ensions of time may be available under the provisions of 37 CFI SIX (6) MONTHS from the mailing date of this communication of period for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by streply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	S DATE OF THIS COMMUNICATIO R 1.136(a). In no event, however, may a reply be til riod will apply and will expire SIX (6) MONTHS from atute, cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).		
Status					
1)[X]	Responsive to communication(s) filed on 1	5 June 2006.			
		Γhis action is non-final.			
3)	· -				
•	closed in accordance with the practice under				
Disposit	ion of Claims				
5)□ 6)⊠ 7)⊠	Claim(s) 35-51 is/are pending in the applica 4a) Of the above claim(s) is/are withe Claim(s) is/are allowed. Claim(s) 35-39 and 42-51 is/are rejected. Claim(s) 40 and 41 is/are objected to. Claim(s) are subject to restriction an	drawn from consideration.			
Applicati	ion Papers				
9) <u> </u>	The specification is objected to by the Exame The drawing(s) filed on is/are: a) and a specificant may not request that any objection to Replacement drawing sheet(s) including the cortical The oath or declaration is objected to by the	accepted or b) objected to by the the drawing(s) be held in abeyance. Se rection is required if the drawing(s) is ob	e 37 CFR 1.85(a). njected to. See 37 CFR 1.121(d).		
Priority ι	ınder 35 U.S.C. § 119				
12)[_ a)[Acknowledgment is made of a claim for fore All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bur See the attached detailed Office action for a	ents have been received. ents have been received in Application of the priority documents have been received the proof of	ion No ed in this National Stage		
Attachmen	, ,	∆	(DTO 442)		
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/ r No(s)/Mail Date				

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DETAILED ACTION

Specification

1. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required:

Claimed subject matter as recited in claims 38, 40 and 45 are not disclosed in the specification.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 36, 43, 46 and 49 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The disclosure, as originally filed, does not provide support for the claimed subject

matter of "the outer layer contains a copolymer of propylene and one or more alpha olefins having 4-12 carbon atoms as the base resin, wherein the portion of the copolymer based on propylene is at least 60 percent by weight based on the weight of the copolymer" as recited in claims 36 and 43, subject matter of "the outer layer is of a predetermined thickness of at least 1 mil" as recited in claim 46, subject matter of "the acid neutralizer is in about 0.5 to 50 parts by weight contained in 100 parts by weight of the homopolymer or copolymer of propylene" as recited in claim 49.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 35-39, 42-46, 50 and 51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bisleri et al. (2001/0025720) in view of Weil et al. (5,578,666).

Bisleri et al. discloses a dual layer thermoplastic polymer-based non-halogen protective sheath consisting of an outer layer solid organo, non-foamed thermoplastic polymer layer as means for providing thermal, physical and

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mechanical protection, and an inner solid, non-foamed thermoplastic polymer layer as means for providing a layer of fire protection.

Bisleri et al. does not specifically disclose the dual layer being provided around an insulated wire nor the outer layer being an intumescing layer or comprising intumescing material (re claims 35 and 43) which is a melamine phosphate (re claim 37).

Bisleri et al. discloses the dual layer surrounding a wire (a conductor) but not an insulated wire. However, it would have been obvious to one skilled in the art to modify the wire of Bisleri et al. to be an insulated wire to further protect the wire from the environment since a wire comprising plural layers of insulation is known in the art.

Weil et al. discloses a flame retardant composition which is suitable for used as wire insulation and cable jacket and which comprises an effective amount of intumescing material which is melamine phosphate. Weil et al. also discloses the melamine phosphate being in about 5 to about 100 parts by weight contained in 100 parts by weight of the polypropylene (re claims 38 and 45). It would have been obvious to one skilled in the art to use the intumescing material as taught by Weil et al. in the outer layer of Bisleri et al. to improve the flame retardant of the cable.

The modified cable of Bisleri et al. also discloses the outer layer containing a copolymer of propylene and one or more alpha olefins having 4-12 carbon atoms as the base resin, wherein the portion of the copolymer based on propylene is at least 60 percent by weight based on the weight of the copolymer (re claims 36 and 44), the outer layer being of a predetermined thickness to provide sufficient thermal protection to the flame retarded inner layer (re claim 39), the modified cable of Bisleri et al. can be used in a plenum or riser cable, a building or automotive wire since it comprises structure and material as claimed (re claims 42, 50 and 51), and the outer layer being at least 1 mil in thickness (re claim 46).

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6. Claims 47-49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bisleri et al. in view of Weil et al. as applied to claim 43 above, and further in view of Kim et al. (2002/0096356).

Claims 47-49 additionally recite the inner layer containing sufficient acid neutralizer which is magnesium hydroxide and in amount of 0.5 to 50 pbw per 100pbw of the homopolymer or copolymer of propylene. Kim et al. discloses a dual layer sheath comprising an inner layer containing sufficient acid neutralizer which is magnesium hydroxide. It would have been obvious to one skilled in the art to include magnesium hydroxide in the inner layer of Bisleri et al. to improve

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the flame retardant properties of the sheath as taught by Kim et al. It would also have been obvious to one skilled in the art to choose a suitable amount of the acid neutralizer in the inner layer of Bisleri et al. to meet the specific use of the resulting cable since the flame retardant of the cable can be adjusted by adjusting the amount of the acid neutralizer (magnesium hydroxide) as taught by Kim et al. and since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable range involves only routine skill in the art. In re Aller, 105 USPQ 233.

Allowable Subject Matter

7. Claims 40 and 41 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

8. Applicant's arguments with respect to claims 35 and 43 have been considered but are moot in view of the new ground(s) of rejection.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chau N. Nguyen whose telephone number is 571-272-1980. The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on 571-272-2800 ext 31. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Chau N Nguyen Primary Examiner

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